

December 23, 1968

**Aerospace Daily**  
AND EXECUTIVE REPORT

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**WHAT'S AHEAD (Cont.)**

**PILOT SHORTAGE:** The Air National Guard figures it will be 1100 pilots short of the 4785 it needs in fiscal year 1973, about double the present shortage. It has proposed an annual output of 321 pilots for the Guard in the next three years which would give it 90% of its estimated requirements.

**JOB ATTRACTION:** In their first formal meeting, outgoing DOD Secretary Clark M. Clifford told his replacement, Rep. Melvin Laird: "One of the bad things about this job is that after a while you start to like it."

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**DIA SEEN BECOMING TOP U.S. INTELLIGENCE AGENCY UNDER NIXON**

Usually informed sources in Washington say that Air Force Lt. Gen. Joe Carroll is going to end up on "top of the intelligence heap" as the result of a Nixon administration decision to give his Defense Intelligence Agency (DIA) a new charter placing it above the Central Intelligence Agency (CIA) in the intelligence pyramid.

Currently, "knock down drag out" fights are going on between the CIA and the DIA for top billing under the new regime. It is reported that the Nixon decision to keep Richard Helms on as CIA director indicates his intention to reduce the stature of the agency.

Meanwhile, there are strong indications the DIA will be augmented in consideration of its broader charter. The move reportedly also will have the general approval of Congress, which has "lost faith" of late in the CIA.

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**ALL DIGITAL DATA SYSTEM SLATED FOR DC-10 TEST PROGRAM**

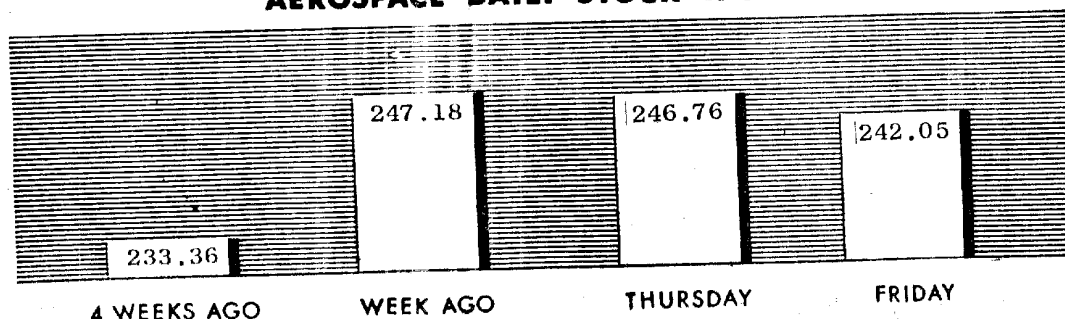
McDonnell Douglas is putting together at its Long Beach facility an all digital data system for ultimate use in the DC-10 test program. Target for having the prototype of the airborne system and the "front end" of the ground system (does not include the computer) is June 1969.

Components for eight airborne systems are on order. Dynatronics, Orlando, Fla., is supplying the digitizers. The analog-to-digital converters will provide a serial-output 125-words-per-frame format at 10-bit-per-word rate. The signal conditioner subsystem will be supplied by Dana Corp., Newport Beach, Calif.

The company currently has the telemetry subsystem under study. It will be a pulse code modulated in the L-band range employing frequency diversity and the Manchester bi-phase code.

Tentative plans call for a receiving antenna to be situated in the San Gabriel Mountains which separate the Los Angeles/Long Beach area from the Antelope Valley site of the company's Palmdale facility where most of the flight test activity will take place. Telemetry would be relayed in real time to the Long Beach plant.

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**AEROSPACE DAILY STOCK INDEX**

The Index is based on the figure 100 representing the weighted stock prices of 19 selected aerospace companies as of Dec. 31, 1964.